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C L A I M S

1. Medical or dental medical handpiece (1),
5 characterized in that,
it has a display (21) for the showing of work-relevant data or images.
2. Handpiece according to claim 1,
10 characterized in that,
it is formed rod-like and the display (21) has a longitudinally directed spacing (e) from the forward end of the handpiece (1), which spacing is preferably at least about 20 to 80 mm, in particular about 30 to
15 50 mm, or greater.
3. Handpiece according to claim 2,
characterized in that,
20 rearwardly of the display (21) the handpiece (1) has a grip section (3), preferably extending straight.
4. Handpiece according to claim 1,
characterized in that,
the forward longitudinal region of the handpiece (1)
25 is angled or curved to the side.
5. Handpiece according to claim 4,
characterized in that,
the display (21) is arranged in a longitudinal region
30 which extends approximately from the forward end region of the grip section (9; 48) up to approximately the middle region of the angling or curvature.
- 35 6. Handpiece according to claim 4,
characterized in that,
the display (21) is arranged on the side of the

handpiece (1) which is away from the direction of angling or the direction of curvature.

7. Handpiece according to claim 1,
5 characterized in that,
the display area (21a) is arranged on the surface of
the handpiece (1) or projects beyond the surface and
extends preferably approximately parallel thereto or
includes with the surface an acute angle (W3) which
10 is forwardly opened.
8. Handpiece according to claim 1,
characterized in that,
it has one or more actuating elements (22) for the
15 switching on and switching off of the showing of
different data items or images on the display (21).
9. Handpiece according to claim 8,
characterized in that,
20 the actuating element or elements (22) are arranged
in the edge region of the display (21), preferably in
the rearward edge region and/or in the forward edge
region.
- 25 10. Handpiece according to claim 8,
characterized in that,
there is provided an actuating element (22) with
which a still image can be switched on or switched
off on the display (21), and/or there is provided an
actuating element with which an image reproduction on
30 a monitor (41) associated with the treatment station
can be switched on or switched off.
11. Handpiece in particular according to claim 1,
35 characterized in that,
it has in its forward end region an image-taking
device (31), the images from which can be shown on

the display (21).

12. Handpiece according to claim 11,
characterized in that,
5 the image-taking device (31) has a light inlet
opening (34) which is covered over by a light
permeable closure plate (35).
13. Handpiece according to claim 11,
10 characterized in that,
the image-taking device (31) has a camera module
(32).
14. Handpiece according to claim 11,
15 characterized in that,
the image-taking device (31) is arranged off centre
in the edge region of the handpiece (1).
15. Handpiece according to claim 11,
20 characterized in that,
the image-taking device (31) is arranged in the
angling or curvature plane of the handpiece (1),
preferably arranged on the forwardly directed side of
the angling or curvature.
25
16. Handpiece according to claim 11,
characterized in that,
the image-taking device (31) is arranged in a
material annex (33) which is preferably arranged to
30 the side.
17. Handpiece according to claim 1 or 11,
characterized in that,
it is a functional handpiece and/or a probe handpiece
35 and/or a working handpiece.
18. Handpiece according to claim 11,

characterized in that,
the spacing of the image-taking device (31) from the forward end of the outlet nozzle (4) is less than 30 mm, preferably about 5 mm to 10 mm.

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19. Handpiece according to claim 11,
characterized in that,
with a working handpiece (1) having an insertion opening (46) for a tool (45) open to the side, in a head (13) of the handpiece (1), the image-taking device (31) is arranged in the end region before or behind the head (13) on the side on which the insertion opening (36) is located, and is directed obliquely towards the middle axis of the insertion opening (46) (Fig. 3).

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20. Handpiece according to claim 11,
characterized in that,
with a working handpiece (1) having a forwardly open insertion opening (46) for a tool (45), the image-taking device (31) is arranged in the forward end region of the handpiece (1), in particular in the side periphery region of the handpiece (1) and is forwardly directed (Fig. 4).

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21. Handpiece according to claim 1,
characterized in that,
it has a data receiver, for the reception of wireless transmitted data, associated with the display, which data corresponds to work-relevant data or images which can be shown on the display (21).

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22. Handpiece according to claim 11,
characterized in that,
35 it has a data transmitter (63), for the transmission of data corresponding to images taken, associated with the image-taking device (31).